

# Technical Data Sheet

## InVivoSIM anti-human CD20 (Ofatumumab Biosimilar)



**Attention:** Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at <https://bioxcell.com/terms-and-conditions>.

### Lot Specific Information

**Lot Number:** Lot Specific\*  
**Volume:** Lot Specific\*  
**Concentration:** Lot Specific\* (generally 4 to 11 mg/ml) \*  
**Total Protein:** Lot Specific\*

\*This information will be noted on the certificate of analysis that ships with this product.

### Product Information

**Catalog Number:** SIM0089  
**Clone:** Ofatumumab  
**Isotype:** Human IgG1,  $\kappa$   
**Recommended Isotype Control(s):** RecombiMAb human IgG1 isotype control, anti-hen egg lysozyme  
**Recommended Dilution Buffer:** InVivoPure pH 7.0 Dilution Buffer  
**Immunogen:** Human CD20  
**Reported Applications:** *in vivo* functional assays  
*in vitro* functional assays  
Flow cytometry  
ELISA  
**Formulation:** pH 7.0  
Contains no stabilizers or preservatives  
**Endotoxin:**  $\leq 0.5$  EU/mg ( $\leq 0.0005$  EU/ $\mu$ g)  
Determined by LAL gel clotting assay  
**Purity:**  $\geq 95\%$   
Determined by SDS-PAGE  
**Sterility:** 0.2  $\mu$ m filtration  
**Production:** Purified from cell culture supernatant in an animal-free facility  
**Purification:** Protein A  
**Aggregation:**  $< 5\%$   
Determined by SEC  
**RRID:**  
**Molecular Weight:** 150 kDa

### Murine Pathogen Test Results

Mouse Norovirus: Negative, Mouse Parvovirus: Negative, Mouse Minute Virus: Negative, Mouse Hepatitis Virus: Negative, Reovirus Screen: Negative, Lymphocytic Choriomeningitis virus: Negative, Lactate Dehydrogenase-Elevating Virus: Negative, Mouse Rotavirus: Negative, Theiler's Murine Encephalomyelitis: Negative, Ectromelia/Mousepox Virus: Negative, Hantavirus: Negative, Polyoma Virus: Negative, Mouse Adenovirus: Negative, Sendai Virus: Negative, Mycoplasma Pulmonis: Negative, Pneumonia Virus of Mice: Negative, Mouse Cytomegalovirus: Negative, K Virus: Negative

### Description

This non-therapeutic biosimilar antibody uses the same variable regions as the therapeutic antibody Ofatumumab, making it ideal for research use. Ofatumumab is a fully human IgG1 monoclonal antibody that specifically targets CD20, a B cell surface antigen expressed from the pre-B to mature B cell stage but not on plasma cells. CD20 plays a critical role in B cell development, activation, and proliferation. By binding to a unique membrane-proximal epitope on CD20, Ofatumumab induces B cell depletion through complement-dependent cytotoxicity (CDC) and antibody-dependent cellular cytotoxicity (ADCC). This Ofatumumab biosimilar is well suited for studying B cell-mediated diseases, CD20 biology, and the

immunologic mechanisms of B cell depletion in autoimmune disease and cancer.

## Storage

Store at the stock concentration at 4°C . **Do not freeze.**

It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at <https://bioxcell.com/faqs>.

## Protocol Information

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

## Application References

For a complete list of references, visit [https://bioxcell.com/sim0089?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/sim0089?bxcs=9k1b3a#tab_references) or scan the QR code below.



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*Not for resale.*

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